14230 U.S. P 06/24/03

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## UTILITY PATENT APPLICATION TRANSMITTAL

| Attorney Docket No. | D 2001.689 US D1              |
|---------------------|-------------------------------|
| First Inventor      | Shepard                       |
| METHODS AND O       | COMPOSITIONS FOR INACTIVATING |

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Express Mail Label No. EV 138172586 US

| APPLICA:   | TION ELEMENTS   | 455               | Ass Ass   | istant Cor         | nmissi           | oner for Patents               |
|--|---|-------------------|---|--------------------|------------------|--------------------------------|
|  | erning utility patent application contents                                |                   |   | Patent A shington, |                  |                                |
| Fee Transmittal Fo   | orm (e.g., PTO/SB/17)   | 7.                | CD-ROM or CD-R in                                   |                    |                  | •                              |
| 1. (Submit an original and a d   |   | 9 No.             | Computer Program                                    |                    |                  | · · · b· · · · i · · · · · · · |
| 2. See 37 CFR 1.27.  | ,   |                   | cleotide and/or Amino A<br>applicable, all necessar |                    | ence S           | ubmission                      |
| 3. Specification (preferred arrangement  | [Total Pages 11 ] set forth below)  | а. [              | Computer Readah                                     | le Form (          | CRF)             |                                |
| - Descriptive title<br>- Cross Reference   | of the invention<br>e to Related Applications                             | b.                | Specification Sequence                              | Listing o          | n:               |                                |
| - Statement Rega   | rding Fed sponsored R & D   |                   | i. CD-ROM o   | r CD-R (2          | 2 copie          | s); or                         |
| or a computer pi   | quence listing, a table, rogram listing appendix                          |                   | ii.   |                    |                  |                                |
| - Background of t<br>- Brief Summary   |   | C.                | Statements verifyi                                  |                    | ·                | •                              |
|  | n of the Drawings (if filed)  |                   | Accompanying  |                    |                  |                                |
| - Claim(s)   | OHOTT   | 9. [              | Assignment Papers 37 CFR 3.73(b) St                 | •                  | neet &           | T Power of                     |
| - Abstract of the  | Disclosure  | 10. [             | (when there is an a                                 |                    | <u> </u>         | Attorney                       |
| 4. Drawing(s) (35 U.   | S.C. 113) [ Total Sheets  | ] 11.             | English Translation                                 |                    | ent <i>(if a</i> |                                |
| 5. Oath or Declaration   | [ Total Pages 2   | ] 12.             | Information Disclo Statement (IDS)/P                |                    |                  | Copies of IDS<br>Citations     |
|  | ted (original or copy)  | 13.               | Preliminary Amen                                    |                    |                  |                                |
| b. Copy from a (for continuat  | prior application (37 CFR 1.63 (d)) ion/divisional with Box 18 completed) | 14. [             | Return Receipt Po<br>(Should be specific            |                    |                  | 603)                           |
|  | ON OF INVENTOR(S) rement attached deleting inventor(s)                    | 15.               | Certified Copy of I                                 | Priority Do        | cumer<br>)       | nt(s)                          |
| named in th  | ne prior application, see 37 CFR and 1.33(b).                             | 16.               | Nonpublication Re (b)(2)(B)(i). Applic              |                    |                  |                                |
| 6. Application Data  | Sheet. See 37 CFR 1.76  |                   | or its equivalent.                                  |                    |                  |                                |
|  |   | 17.               | Other:  |                    |                  |                                |
| 18. If a CONTINUING APPLIC<br>or in an Application Data She  | CATION, check appropriate box, and su<br>et under 37 CFR 1.76:            | apply the requ    | uisite information below                            | and in a p         | orelimii         | nary amendment,                |
| Continuation 🔽   | Divisional Continuation-in-part (CIF                                      | P)                | of prior application No.:                           | 9 , 855            | 5,634            |                                |
| Prior application information: Examiner: T. Criares Group Art Unit: 1617   |   |                   |   |                    |                  |                                |
| For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. |   |                   |   |                    |                  |                                |
| The incorporation <u>can only</u> be relied upon when a portion has been inadvertently omitted from the submitted application parts.  19. CORRESPONDENCE ADDRESS   |   |                   |   |                    |                  |                                |
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| Country  | T   | elephone          |   | Fá                 | ax               |                                |
| Name (Print/Type)  | William P. Ramey III  | Reg               | istration No. (Attorne                              | //Agent)           |                  | 44,295                         |
| Signature  | 1000  |                   |   | Date               | 06/2             | 4/2003                         |

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Approved for use through 04/30/2003. OMB 0651-0035

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## FEE TRANSMITTAL for FY 2003

(\$)

Effective 01/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

| Complete if Known    |                  |  |
|----------------------|------------------|--|
| Application Number   | To be assigned   |  |
| Filing Date          | June 24, 2003    |  |
| First Named Inventor | Shepard, Scot    |  |
| Examiner Name        | To be assigned   |  |
| Art Unit             | TBA              |  |
| Attorney Docket No.  | D 2001.689 US D1 |  |

| Check   | METHOD OF PAYMENT (check all that apply)  FEE CALCULATION (continued) |   |                   |  |  |
|---|---|---|-------------------|--|--|
| Deposit Account Number   Deposit Account   Deposit  |   | 3. ADDITIONAL FEES  |                   |  |  |
| Code (\$)   Code (\$) |   |   |                   |  |  |
| Account Number Deposit Account Account Account The Director is authorized to: (check all that apply)  Charge fee(s) indicated below Credit any overpayments Charge fee(s) indicated below Credit any overpayments Charge fee(s) indicated below Account Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.  FEE CALCULATION  1. BASIC FILING FEE Large Entity Small Entity Fee Fee Fee Fee Description Code (\$)                   | Denosit   |   | ee Paid           |  |  |
| Deposit Account   The Director is authorized to: (check all that apply)   The Direct  |   |   |                   |  |  |
| The Director is authorized to: (check all that apply)    Charge fee(s) indicated below   Credit any overpayments   1804   920*   1804   920*   1804   920*   1804   920*   1804   920*   1805   1,840*   1805   | Deposit   |   |                   |  |  |
| Charge fee(s) indicated below   Credit any overpayments   1812 2,520   1812 2,520   1812 2,520   1814 2,520   1804 920*   1804 920*   1804 920*   1804 920*   1804 920*   1804 920*   1805 1,840*   | Name  |   |                   |  |  |
| Charge any additional fee(s) during the pendency of this application   Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.   1805 1,840*  |   | 1812 2,520 1812 2,520 For filing a request for ex parte reexamination | ,                 |  |  |
| Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.    Tee   Fee   F  |   |   | l                 |  |  |
| Examiner action   Examiner a  |   | Examiner detect   |                   |  |  |
| 1. BASIC FILING FEE  Large Entity Small Entity Fee Fee Fee Fee Fee Fee Fee Fee Paid  1. Spanning Fee Fee Fee Fee Fee Fee Fee Fee Paid  1. Spanning Fee Fee Fee Fee Fee Fee Fee Fee Fee Paid  1. Spanning Fee Fee Fee Fee Fee Fee Fee Fee Paid  1. Spanning Fee Fee Fee Fee Fee Fee Fee Fee Paid  1. Spanning Fee Pai  |   | Examiner action   |                   |  |  |
| 1. BASIC FILING FEE   Large Entity   Small Entity  | FEE CALCULATION   |   |                   |  |  |
| Large Entity Small Entity Fee   | 1. BASIC FILING FEE   | 1 122 176 2 200   |                   |  |  |
| Code (\$)   | Large Entity Small Entity   | 1,  |                   |  |  |
| 1001 750   2001 375   Utility filing fee   750.00   1255 1,970   2255 985   Extension for reply within fifth month   1401 320   2401 160   Notice of Appeal   1402 320   2402 160   Filing a brief in support of an appeal   1403 280   2403 140   Request for oral hearing   1451 1,510   Petition to institute a public use proceeding   1452 110   2452 55   Petition to revive - unavoidable   1451 1,510   1451 1,510   Petition to revive - unavoidable   1501 1,300   2501   650   Utility issue fee (or reissue)   1502 470   2502 235   Design issue fee   1503 630   2503 315   Plant issue fee   1460 130   Petitions to the Commissioner   1807 50   Processing fee under 37 CFR 1.17(q)   1806 180   1806 180   Submission of Information Disclosure Stmt   Recording each patent assignment per property (times number of property (times number of property (times number of property)   1502 907 (times number of property (times number of property)   1500 907 (times number of property (times number of property)   1500 907 (times nu  | 1.00 100 100 100  | 1254 1,450 2254 725 Extension for reply within fourth month           |                   |  |  |
| 1002 330   2002 165   Design filing fee   1401 320   2401 160   Notice of Appeal   1402 320   2402 160   Filing a brief in support of an appeal   1403 280   2403 140   Request for oral hearing   1451 1,510   Petition to institute a public use proceeding   1452 110   2452   55   Petition to revive - unavoidable   1502 470   2502 235   Design issue fee   1503 630   2503 315   Plant issue fee   1503 630   2503 315   Plant issue fee   1503 630   2503 315   Plant issue fee   1503 630   2503 315   Processing fee under 37 CFR 1.17(q)   1806 180   1806 180   Submission of Information Disclosure Stmt   Recording each patent assignment per property (times number of properties)   1403 280   2403 140   Request for oral hearing   1403 280   2403 140   Request for oral hearing   1451 1,510   Petition to revive - unavoidable   1452 110   2452   150   Petition to revive - unintentional   1501 1,300   2501   650   Utility issue fee   1503 630   2503 315   Plant issue  | 1001 750 2001 375 Utility filing fee                                  | 1255 1,970 2255 985 Extension for reply within fifth month            | $\longrightarrow$ |  |  |
| 1004 750   2004 375   Reissue filing fee   1403   280   2403   140   Request for oral hearing   1451   1,510   Petition to institute a public use proceeding   1451   1,510   Petition to revive - unavoidable   1501   1,300   2501   650   Petition to revive - unintentional   1501   1,300   2501   650   Petition to revive - unintentional   1501   1,300   2501   650   Petition to revive - unintentional   1501   1,300   2501   650   Petition to revive - unintentional   1501   1,300   2501   2502   235   Design issue fee   1503   630   2503   315   Plant issue fee   1503   630   2503   315   Plant issue fee   1460   130   Petitions to the Commissioner   1807   50   Processing fee under 37 CFR 1.17(q)   1806   180   180   180   Submission of Information Disclosure Stmt   Pee Fee Fee Fee Fee Fee Fee Fee Fee Fee  |   | 1401 320 2401 160 Notice of Appeal                                    |                   |  |  |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE Total Claims Independent Claims Multiple Dependent Multiple Dependent  Large Entity Small Entity Fee Fee Code (\$)  Provisional filing fee  SUBTOTAL (1)  (\$) 750.00  1451 1,510 1451 1,510 Petition to institute a public use proceeding 1452 110 2452 55 Petition to revive - unavoidable 2453 650 Petition to revive - unintentional 2501 650 Utility issue fee (or reissue) 1502 470 2502 235 Design issue fee 1503 630 2503 315 Plant issue fee 1460 130 Petitions to the Commissioner 1504 1460 130 Petitions to the Commissioner 1505 1807 50 Processing fee under 37 CFR 1.17(q) 1806 180 180 Submission of Information Disclosure Stmt 1506 Perition to revive - unavoidable 1507 1,300 2453 650 Petition to revive - unintentional 1508 1,300 2501 650 Utility issue fee (or reissue) 1509 1,300 2502 235 Design issue fee 1500 1,300 2503 315 Plant issue fee 1451 1,510 1,451 1,510 Petition to institute a public use proceeding 1501 1,300 2453 650 Petition to revive - unintentional 1501 1,300 2501 650 Utility issue fee (or reissue) 1502 470 2502 235 Design issue fee 1503 630 2503 315 Plant issue fee 1451 1,510 Petition to institute a public use proceeding 1501 1,300 2453 650 Petition to revive - unintentional 1501 1,300 2501 650 Utility issue fee (or reissue) 1501 1,300 2501 650 Utility issue fee (or reissue) 1502 470 2502 235 Design issue fee 1503 630 2503 315 Plant issue fee 1503 630 2503 315 Plant issue fee 1504 1460 130 Petition to revive - unintentional 1501 1,300 2501 650 Utility issue fee (or reissue) 1501 1,300 2501 650 Utility issue fee (or reissue) 1502 470 2502 235 Design issue fee 1503 630 2503 315 Plant issue fee 1504 1,450 130 Petition to revive - unintentional 1501 1,300 2501 650 Utility issue fee (or reissue) 1503 630 2503 315 Plant issue fee 1504 1,460 130 Petition to revive - unintentional 1501 1,300 2501 650 Utility issue fee (or reissue) 1503 630 2503 315 Plant issue fee 1504 1,460 130 Petition to revive - unintentional 1501 1,300 2501 650 Utility issue fee (or reissue) 1504 1,460  | 1003 520 2003 260 Plant filing fee                                    | 1402 320 2402 160 Filing a brief in support of an appeal              |                   |  |  |
| SUBTOTAL (1)   (\$) 750.00   1452   110   2452   55   Petition to revive - unavoidable   1453   1,300   2453.   650   Petition to revive - unintentional   1501   1,300   2501   650   Utility issue fee (or reissue)   1502   470   2502   235   Design issue fee   1503   630   2503   315   Plant issue fee   1503   630   2503   630  | 1004 750 2004 375 Reissue filing fee                                  | 1403 280 2403 140 Request for oral hearing                            |                   |  |  |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE  Extra Claims Fee from below Fee Paid  Total Claims Independent Claims Multiple Dependent  Multiple Dependent  Large Entity   Small Entity Fee Fee Code (\$)  Extra Claims Fee From below Fee Paid  1453 1,300. 2453. 650 Petition to revive - unintentional  2501 650 Utility issue fee (or reissue)  2502 235 Design issue fee  1503 630 2503 315 Plant issue fee  1460 130 Petitions to the Commissioner  1807 50 Processing fee under 37 CFR 1.17(q)  1806 180 1806 180 Submission of Information Disclosure Stmt  Fee Fee Fee Fee Fee Code (\$)  Recording each patent assignment per property (times number of properties)  | 1005 160 2005 80 Provisional filing fee                               | 1451 1,510 1451 1,510 Petition to institute a public use proceeding   |                   |  |  |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE Fee from below Fee Paid Total Claims   7   -20** =   0     X   0   =   0     1503   630   1502   2503   315   Plant issue fee   | SUBTOTAL (1) (\$) 750.00  |   |                   |  |  |
| Extra Claims  | 2 EXTRA CLAIM FEES FOR LITH ITY AND REISSUE                           | , ,   |                   |  |  |
| Total Claims  | Fee from  | 1501 1,300 2501 650 Office (Street (or reissue)                       | ——                |  |  |
| Independent Claims Multiple Dependent  Large Entity   Small Entity Fee Fee Code (\$)  Code (\$)  Large Entity   Small Entity Fee Fee Code (\$)  Large Entity   Small Entity Fee Fee Code (\$)  Code (\$)  Large Entity   Small Entity Fee Fee Fee Code (\$)  Large Entity   Small Entity Fee Fee Fee Fee Code (\$)  Large Entity   Small Entity Fee Fee Fee Fee Fee Fee Code (\$)  Large Entity   Small Entity Fee  |   |   |                   |  |  |
| Multiple Dependent    Claims  | Independent 1 3** 5 V 0 10  | <u> </u>  |                   |  |  |
| Large Entity   Small Entity Fee Fee   Fee Fee Code (\$)   Fee Description    8021   40   80   | Claims  |   |                   |  |  |
| Fee Fee Code (\$)  Fee Description  8021 40 802   | Large Entity L. Small Entity  | ,                               |                   |  |  |
| property (times number of properties)   | Fee Fee Fee Fee Description   | 8021 40 8021 40 Recording each patent assignment per                  |                   |  |  |
| 12UZ 18 ZZUZ 9 Cidinis III excess 01 ZU   | 1202 18 2202 9 Claims in excess of 20                                 | property (times number of properties)                                 |                   |  |  |
| 1201 84 2201 42 Independent claims in excess of 3 1809 750 2809 375 Filing a submission after final rejection (37 CFR 1.129(a))   | 1201 84 2201 42 Independent claims in excess of 3                     |   |                   |  |  |
| 1203 280 2203 140 Multiple dependent claim, if not paid 1810 750 2810 375 For each additional invention to be examined (37 CFR 1.129(b))  | '   |   |                   |  |  |
| 1204 84 2204 42 ** Reissue independent claims over original patent 1801 750 2801 375 Request for Continued Examination (RCE)  |   |   |                   |  |  |
| 1205 18 2205 9 ** Reissue claims in excess of 20 1802 900 Request for expedited examination of a design application   |   |   |                   |  |  |
| SUBTOTAL (2) (\$) 0 Other fee (specify)   | SUBTOTAL (2) (\$\ 0   | T 11  |                   |  |  |
| **Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 0  |   | *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 0                 |                   |  |  |

| SUBMITTED BY      |                      |                                      |  | (Complete ( | if applicable) |
|-------------------|----------------------|--------------------------------------|--|-------------|----------------|
| Name (Print/Type) | William P. Ramey III | Registration No.<br>(Attorney/Agent) | 44,295   | Telephone   | 302 933 4034   |
| Signature         | 1/. 1/(1)            |                                      | and the same of th | Date        | 6/24/2003      |

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.